

# Commonwealth of Massachusetts

## Learning From the World's Leading Startup Ecosystems

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# State Technology and Science Index – Milken Institute



## ■ Massachusetts Ranked #1 overall for the 14<sup>th</sup> consecutive year

- #1 in Research and Development
- #2 in Risk Capital and Entrepreneurial Infrastructure
- #2 in Human Capital Investment
- #2 in Technology and Science Workforce

## ■ Significant Identified Assets

- Super cluster of educational institutions
- Diverse high-tech workforce
- Permanent Research and Development Tax Credit
- Small Business Innovation Resources

**Massachusetts**  
*It's all here.®*



# Greater Boston is the most Innovative Area in the World



## The Boston Globe

### ***Boston, Cambridge are ground zero for life sciences***

MARCH 16, 2015: BOSTON-CAMBRIDGE is ground zero for the development and deployment of many of the bleeding edge life science discoveries and technologies. One corner alone, Vassar and Main Street in Cambridge, will likely generate 1 to 2 percent of the future world GDP.

...On a per capita basis, nowhere else comes close in terms of research grants, patents, and publications that drive new gene code, which in turn alters the evolution of bacteria, plants, animals, and ourselves.

### ***The hub of health care***

DECEMBER 8, 2015: When it comes to advancing innovation, the Boston area is one of the world's most vital resources for a number of industries, especially health care.

### ***A new Kendall Square envisioned in \$1.2b MIT plan***

JULY 28, 2015: The plan, six years in the making, calls for six new buildings on what is now a string of parking lots along Main Street. In addition to academic and business uses, the complex would include apartments for graduate students and low-income tenants, stores, and a tree-covered plaza near the Charles River.

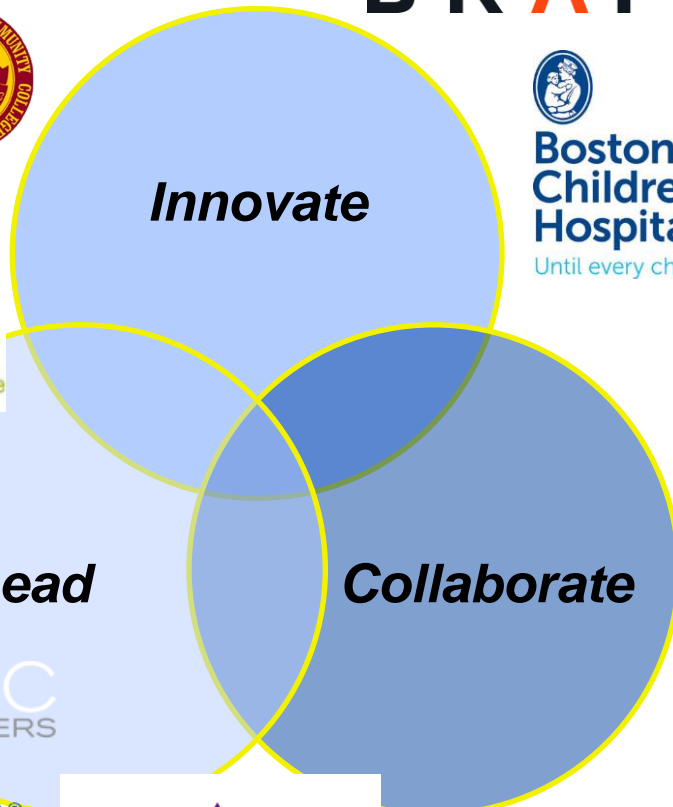
### ***Vassar and Main: The World's Most Innovative Intersection***

NOEMBER 2, 2015: If one had to pick a single corner, anywhere on the planet, as the most innovative and productive crossroads in history, the intersection of Vassar Street and Main Street, in the new world's Cambridge, Massachusetts, would be a leading candidate...





# The Massachusetts Ecosystem (sampling)





# R&D Fund Investments



## Collaborative R&D Matching Grants: \$30 Million



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BeyondU About Academics Research Admissions & Aid Student Life Athletics

*Printed Electronics Research Collaborative (PERC)*




Northeastern University  
Center for High-rate Nanomanufacturing

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Highlights

**Professor Ahmed Busnaina is an invited speaker at the NanoWorld Conference-2016 (NWC-2016)**

Distinguished University Professor Ahmed Busnaina will be the invited speaker at the NanoWorld Conference-2016 (NWC-2016) in Boston from April 04 to 06, 2016. The NWC-2016 conference focuses on nanotechnology and nanoscience as applied to health, energy, environment, space and sensors.



CONTINUE READING

Welcome to NEU Nanomanufacturing

The Center for High-rate Nanomanufacturing (CHN) is focused on developing tools and processes that will make it possible for businesses to quickly and efficiently manufacture products. For many nanoproducts currently under development, the technology only allows us to laboriously make a limited range of products. Our goal is high-rate, high-volume

READ MORE

From Lab To Fab: Pioneers in Nano-Manufacturing

From Lab To Fab: Pioneers in

News Center Highlights

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HOME CORE PROJECTS WORKING GROUPS PARTNERS DISCOVER KNOWLEDGE BASE ABOUT

Latest Posts

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| <p><b>Alharthi</b><br/>September 15, 2016</p> <p>a Software Engineering intern at the Massachusetts Open Cloud working on</p> <p>Read more...</p> | <p><b>2016 MOC Fall Workshop</b><br/>September 15, 2016</p> <p>We are excited to announce the second annual Massachusetts Open Cloud Workshop will be</p> <p>Read more...</p> | <p><b>Cloud Dataverse</b><br/>August 30, 2016</p> <p>by Anuj Thakur Background: First, some clarification of terms: Dataverse Installation:</p> <p>Read more...</p> | <p><b>The MOC is hiring !</b><br/>August 23, 2016</p> <p>See our immediate needs below. We are always looking for enthusiastic</p> <p>Read more...</p> |
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RESEARCH AND DEVELOPMENT  
Creating new concepts

Tweets by @WHOI\_CMRR

**WHOI\_CMRR**  
@WHOI\_CMRR

WHOI CMR on the #IBus tour to Boston @MassChallenge facility across from the USNS Wm. McLean in drydock. @USNavy



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# Massachusetts Manufacturing Innovation Initiative (M2I2)



- **Manufacturing USA infrastructure within the state's academic, research and manufacturing industry.**
- **Over the next 5 years the state has committed \$113M across five centers:**
  - AIM Photonics, Integrated Photonics
  - NextFlex, Flexible Hybrid Electronics,
  - AFFOA, Advanced Fibers and Textiles
  - ARM, Advanced Robotics Manufacturing
  - NIIMBLE, Manufacturing Biopharmaceuticals





# Democratizing Innovation



cloud 85



W. Mass Food Processing Center



ORANGE INNOVATION CENTER



Haverhill Hackers



Tech Spring



## Innovation Economy Assets

### Asset Types

- 1 Dot = 1
- Total Spaces
- Total Organizations
- Total Programs
- Total Connections



GroundWork New Bedford

